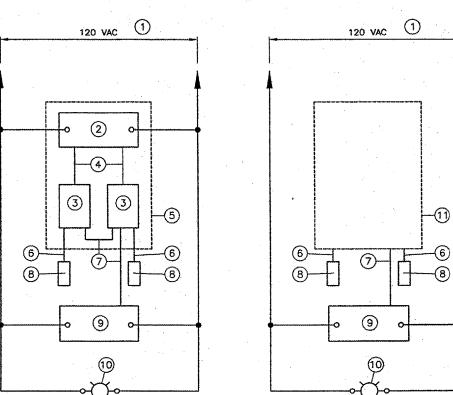
WIRELESS INTERFACE DETAIL NOMENCLATURE

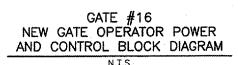
- 1 ANTENNA, SUPPLIED BY THE WIRELESS CARD READER INTERFACE SUPPLIER AND INSTALLED PER THEIR INSTRUCTIONS (TYP. OF TWO).
- (2) 5-FOOT GROUNDING CONNECTION CABLE, SUPPLIED BY THE WIRELESS CARD READER INTERFACE SUPPLIER (TYP. OF TWO).
- (3) GROUNDING BLOCK SUPPLIED BY THE WIRELESS CARD READER INTERFACE SUPPLIER (TYP. OF TWO).
- 4) 15-FOOT COAXIAL CABLE SUPPLIED BY THE WIRELESS CARD READER INTERFACE SUPPLIER (TYP. OF TWO). INSTALL WITH "DRIP LOOP" AS
- (5) GROUND WIRE, INSTALLED PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS.
- 6 ANTENNA MAST IN FOUNDATION AND ANCHORED TO HANGAR WALL, INSTALLED PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS.
- (7) ITEM 610 CONCRETE FOUNDATION, INSTALLED PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS.
- (8) GROUND ROD(S), INSTALLED PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS, CONNECTION TO GROUND ROD(S) SHALL BE VIA EXOTHERMIC WELD, CADWELD, OR EQUIVALENT. BOLTED CONNECTIONS ARE NOT ACCEPTABLE.
- 9 NEMA 4X STAINLESS STEEL JUNCTION BOX, SIZED AS REQUIRED. PROVIDE TWO SEALING GROMMETS IN OPENINGS IN BOTTOM OF JUNCTION BOX FOR COAXIAL CABLE ENTRY.
- (INSIDE HANGAR) NEMA 4X STAINLESS STEEL, HINGED COVER ENCLOSURE, HOFFMAN, OR EQUIVALENT, SIZED AS REQUIRED TO HOUSE THE FOLLOWING EQUIPMENT: - TWO WIRELESS CARD READER INTERFACE UNITS, ONE FOR INCOMING (LANDSIDE) CARD READER, ONE FOR OUTGOING (AIRSIDE) CARD READER.

 WIRELESS CARD READER INTERFACE POWER SUPPLY. INSTALL PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS.
- 120V POWER WIRING FROM EXISTING PANELBOARD CIRCUIT BREAKER. SEE ELECTRICAL GATE SITE PLAN FOR WIRE AND CONDUIT SIZES.
- 120V POWER WIRING TO NEW HANDHOLE FOR NEW GATE OPERATOR AND EXISTING AREA LIGHT POWER. SEE ELECTRICAL GATE SITE PLAN AND NEW GATE DETAILS FOR WIRE AND CONDUIT SIZES.
- 13 TWO 6-CONDUCTOR #18 SHIELDED CABLES (CARD READERS, CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER), 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL) IN 1-1/2° CONDUIT TO NEW HANDHOLE. SEE NEW GATE DETAILS FOR ADDITIONAL INFORMATION.
- 1) ONLY ONE ANTENNA IS SHOWN FOR CLARITY. HOWEVER, TWO ANTENNAS WILL BE INSTALLED ON THE ANTENNA MAST AS DIRECTED BY THE WIRELESS CARD READER INTERFACE SUPPLIER, INCLUDING TWO 5-FOOT GROUNDING CONNECTION CABLES, TWO GROUNDING BLOCKS AND TWO 15-FOOT COAXIAL CABLES.
- 2) LIGHTNING PROTECTION IS NOT SHOWN FOR CLARITY, BUT SHALL BE INSTALLED PER WIRELESS INTERFACE SUPPLIER REQUIREMENTS.
- 3) ADDITIONAL HARDWARE, EQUIPMENT AND LABOR SHALL BE SUPPLIED AS NECESSARY TO PROVIDE A COMPLETE WIRELESS CARD READER INTERFACE INSTALLATION.

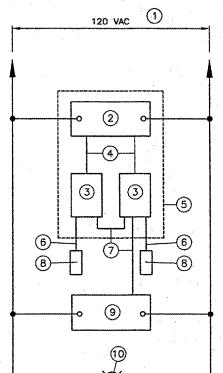
GATE POWER AND CONTROL BLOCK DIAGRAM NOMENCLATURE

- 120V POWER WIRING FROM EXISTING PANELBOARD CIRCUIT BREAKER. SEE ELECTRICAL GATE SITE PLAN FOR WIRE AND CONDUIT SIZES.
- WIRELESS CARD READER INTERFACE POWER SUPPLY.
- WIRELESS CARD READER INTERFACE.
- 4 2/C #14 SHIELDED CABLE (12VDC POWER).
- (INSIDE HANGAR) NEMA 4X STAINLESS STEEL, HINGED COVER ENCLOSURE, HOFFMAN, OR EQUIVALENT, SIZED AS REQUIRED TO HOUSE EQUIPMENT.
- 6-CONDUCTOR #18 SHIELDED CABLE (CONTRACTOR SHALL VERIFY WITH CARD READER SUPPLIER).
- 2/C #14 SHIELDED CABLE (GATE OPEN CONTROL).
- CARD READER, LOCATED AT NEW GATE.
- (9) NEW GATE OPERATOR.
- 10 FXISTING AREA LIGHT.
- ACCESS CONTROLLER IN MAINTENANCE BLDG.





GATE #17, #21, #27 WIRELESS CARD READER INTERFACE DETAIL N.T.S.

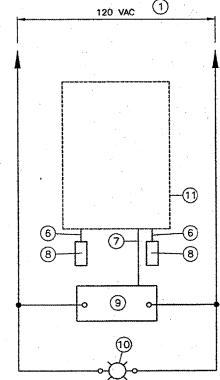


GATE #17, #21, #27

NEW GATE OPERATOR POWER

AND CONTROL BLOCK DIAGRAM

N.T.S.



(4) 10 (6) (13)NOTES:

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THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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DESIGN BY CBG CMT CHECKED BY: RUV APPROVED BY: 1/12/2007 06085--03--00 ILLINOIS PROJECT BMI-3653

A.I.P. PROJECT 3-17-0006-47 SHEET 26 OF 26 SHEETS